[Number Two.]

The Biography of a Greenback.-Continued.

The number of "dangerous" counterfeits is extremely small, their real character being easily detected as soon as circulation is attempted. Indeed tained. a "bogus" treasury note is almost as hard to find now as a good bank note out West was before the are the Continental Bills first issued in 1775. These ing the script letter are secured from the liability to this process. This work is of a very superior qualiingravers then in the country. A comparison of subjected to the heavy pressure of the transfer press. chinery. It would be nearly if not quite impossible and my word for it they will be accommodated.

requires so much time and labor to execute, as that a certain degree of shade of light being as necessary printing. We have given, in a previous chapter, printer. brief description of one—perhaps the largest and subject where we left it.

At another desk in the PICTORIAL ENGRAVING HOOM

we find an engraver putting the finishing touches t a fine portrait of the Hon. Wm. Pitt Fessenden. the new Secretary, which will, when finished, em machine was constructed and put up in the Machine

where certain parts of a note are executed by machinery with a delicacy and precision altogethe machine all the elaborate lathe-work which forms to noticeable a feature on almost all the Department money issues is done. It is a most admirable and ingeniously contrived machine, and was built by Albert Tichener, of Newark, aided by other expermechanics, and is now owned by the Government The machine work of the die having been executed the letters and figures which represent the descrip tion and denomination of the note, and which a necessary to designate its value, are next engrave

The original plate or bed-piece having now been prepared, it must next go through the process of hardening, in order to fit it for the purposes of a "trans-For the immense issues of the Department, frequently amounting to millions in a single day, it will readily be conceived that a single plate of each of the different issues would be altogether inadequate for the use of the printers. From such a plate it would, of course, be impossible to furnish the rooms, equally impossible to have the requisite num- Printer's rooms, let us glance into the ber of plates engraved. It becomes necessary, there-How shall it be done, becomes the next question. Follow us and we will show you the

TEMPERING ROOM.

"transfer" process. This process is already pretty vision and responsibility.

where the pion is throughly hadraned for the providing protein was designed to the task of property the course, the providing and the providing protein and the protein and the

were engraved by Paul Revere, the best of the four breakage to which they would be exposed were they ty, and the sheets thus printed are separated by ma-come bronze statues, let them apply at this room 1864 will illustrate the progress of the art during room. The room itself is about 120 feet long by 30 chinery necessary to the manufacture of currency by number, and is now ready for in width, and well lighted by nine windows, as in- this process, with the secresy necessary to escape de on the plates now being prepared for National Note to the engraver, as steam is to the power-press

the building, and as the road is a somewhat long in machinery to test the feasibility of the plan, Mr. have an edge beveled both ways.

we find ourselves in a spacious and lefty vestibule is in motion. By a very ingenious contrivance in facing the main western entrance to the building. the busement and outside of the building, areservoir the note, and it is then ready for the separator. etter-ornamentation used in note engraving. This We stop a moment to note the massive and mam- of hydraulic power is created from which these moth proportions of everything around and about presses are fed. lect, to visit the Art or Pictorial room again. At and evenly laid as mosaic. The stairs, which are ilar apartment, in the adjoining wing of the buildpresent we will accompany curattentive guide to the spiral, are of solid granite; the rail is ornamented ing, may be thus briefly described. The wetting is box, each series of numbers separately. The notes and passages leading to the different offices and bu- as in newspaper printing. A room is prepared es- each are the same: therefore it is essential they

ind ourself in front of a large, closely-grated gate, dubiously. We present our authority, the massive

There are two processes of printing money carried on in the National Note Bureau. These are the remarked about the fiber in the paper. requisite number of impressions. It is, as you have wet and dry processes. We will endeavor briefly to seen, from your explorations in the Art engraving. explain each of them; but before we enter the

PAPER ROOM

fore, to repeat or duplicate them in another way. This is a branch of the principal Paper Store-room of this large force was at work, and the scene pre-

where the plate is thoroughly hardened for the pursued by those charged with its immediate super- 50 or 60 thousand sheets. At the end of each day's New-York, that the Department at Washington is

ing associations in the country. The Notes of these of Capy's Payert Chille Inox Sares in which him in his pass-book. At night, when his day's Something like a repetition of the scene in the up-

Ascending the noble flight of stone steps which first tests were made with hand pumps. Ma-sheets are taken to the scaling presses, of which power to nearly have recently been constructed in the west wing, chine pamps have now been rigged, and the whole there are fourteen worked entirely by girls. The

ron. From this central point diverge the main halls | done by cloths instead of by dipping or sprinkling, are lettered A, B, C, and D, and the numbers on caus of the Department. Immediately at our tack pecially for this with iron weights for pressing, should be kept carefully apart. Each of the boxes stretches the suite of rooms occupied by the U. S. Each man has his particular place assigned him, and that receives them has a movable bottom. ome spart- all work in harmony, and with precision and celerment at the north end of the new wing has just been lity. The printing is now done on the old-fashioned this bottom is near the top of the box, but as the nters for engraver's press, which is nothing more than a sim- cutting progresses and the number of the bills insurer's Office; while the long ple fron roller, covered with cloth and paper, to creases, a ratchet lets the bottom drop the thickness press the printing paper into the indentures, placed of a bill, so the box is kept just so full all the time,

the ball are handsome apartments occupied by the Cashier and Chief Clerk of the Bureau.

Cashier and Chief Clerk of the Bureau.

Ascending to the 3d floor we turn to the left and them from blurding, and sent in hundreds to the by the hand. them from blurring, and sent in hundreds to the by the hand. drying room. The first process of bond printing is lently has not seen us before, and shakes his head a yellow mordant, and as they fly from the press of five dollars each, and I am not sure but it binds

quantities of Government Paper money in almost other, with sufficient space allowed between each are made to bear their proportional burden of the present purposes.

Soon after this there followed the resignation of Gen. TRANSFIRM ROOM.

It is in the sub-basement of the building. It is a sub-basement of the building covers, from the One Thousand Boll-rounding the Government many that is much to allow workment to the look of the flowers and the sub-basement of the proportional builded of the sub-base of printing whethed the proportional builded of the sub-base of printing with the work allow workment to allow workment to the flowers and the sub-base of printing is the door work all stacked on the sub-base of printing whethed the flowers and the printings. Is, the black, 2d, the green on the back. This is independent of the proportional builded on the sub-base of printing whethed the flowers and the sub-base of printing work the flowers and the flowers all stacked to allow workment to allow workment to the flowers and the flowers work, as before stated, the sheets are delivered to the unequal to the task of supplying the country with

the Superintendent of plate-printing. The dimensions of this vanit are 20 feet long by 12 feet wide.

The door is constructed of chilled iron and fitted

Women, most frequently young girls, are employed

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The door is constructed of chilled iron and fitted When the Government, under the financial preswith a burglar-proof lock. The sides of the vault
than men. Six are employed in this room, and their
than men. Six are employed in this room, and their
than men. Six are employed in this room, and their That heavy, clanking sound you hear resembling ing to the subject, says: Here also and in the Paper-room the work is given the clacking of a mill or steamboat wheel comes sues are kept. On the counter outside the vanit is

Here also and in the Paper-room the work is given the clacking of the counter outside the vanit is

not the printers. In the morning each man reform the half-opened door leading to this room. A rain, the past week, up to Friday night, was character important the printers. In the morning each man reform the half-opened door leading to this room. A rain, the past week, up to Friday night, was character in the printers. redemption of its paper "promises to pay," there tion of each plate as it is taken from and returned ceives the plate which he is to print, and the neces-In the room outside the vault is one sary paper to fill the order. These are charged to him in his pass-book. At night, when his day's lies are kept. The number of rolls work is finished, he brings back the plate with the stairs printing-room presents itself. About thirty there were more than five thousand counterfeits on them. In such a state of the currency a bank-note Reporter or a money expert was as much a counterfeit or an ecessity as the banks themselves, and wee to the man who can the country "at sight," or without certifying himself of the read and the floating currency of the Chief of the Bureau, or from the Superincountry "at sight," or without certifying himself from the Chief of the Bureau, or from the Supering the Numbering room.

This is a spiendid apartment, 100 feet long by 30 are also located cylinder presses, and Bronzing materials are also located c much improved state of things. Except in New- rooms. A daily report of the deliveries and receipts wide, and contains over 50 presses, which have been chines, where the compound interest notes and Fork and other large commercial centers, where the supplied to the Department at an aggregate cost of are operated upon. This was formerly a very dirty are operated upon. in this office, in books kept for that purpose, so that only would be attained if notes could be printed part of the operatives engaged in the work, but feeding of e in case any of the plafes are lest or missing, by a without wetting, thus securing the paper from irreg. new machines have been lately introduced to obvireference to this book the necessary clue may be cbular shrinkage, and also giving the engraving a ste this difficulty. Before their introduction the clearer and more perfect impression. To effect this, bronze had to be applied to the printed letter by much greater pressure was necessary than could be means of a brush in the hands of the operator. This obtained by the common roller presses then in use. bronze is used in a powder, and the small particles, SPEECH OF THOMAS EWING OF war. For this almost complete immunity from loss and see what becomes of the plate after it leaves the Requisite machinery was therefore obtained, and in the process of application, would fly off and fill we are largely if not mainly indebted to the artistic transfer press. The pertraits, checks, counters, the impressions taken by hydraulic pressure. The and mechanical skill which is bestowed upon the &c., have now all been put upon the face of the experiments made to secure this end have been appearance in the work. This various issues of Government money. This perfection has been extrained by slow degrees. To quote the many objections were made by experts to the words of a late writer, "Nothing can be more the words of a late writer, "Nothing can be more than the Massachusetts notes, issued in 1690. rade than the Massachusetts notes, issued in 1690, the lettering to the last, is, that by so doing, the proved successful, and over a million of dollars of the face in unsightly paper caps which give them a the first American paper money." Hardly better fine lines which are required to be made in engrav-

chinery. It would be hearly if not quite impossible for counterfeiters to procure and operate the machinery necessary to the manufacture of currency by this process, with the secresy necessary to escape detection. Specimen sheets show a clearer impression and a remarkable distinctness with which the faintest water line is made to stand boldly out. All sorts of stories were circulated of the building being of stories were circulated of the building being created by the fair and is now ready for the following organization. Which the growing disregard of law. Crime was marked with more are sold and specified and specified in the secret of the origin of law. Crime was marked with more at and suppose that I would have a clearer impression and a remarkable distinctness with which the faintest water line is made to stand boldly out. All sorts of stories were circulated of the building being of stories were circulated of the building being of stories were circulated of the building being of stories are circulated to fair the process of events, particularly the growing disregard of law. Crime was marked with more at and suppose the fair circulation is more distant and more of this delication. Mr. Ewing referred to the old this delication and more of this delication. Mr. Ewing referred to the old this delication. Mr. Ewing referred to the old this delication and suppose that I have a any of these with a United States Treasury Note of There are seven engravers employed in the lettering for counterfeiters to procure and operate the ma-There is perhaps no engraving so fine, or which deed are all the rooms on this floor of the building, tection. Specimen sheets show a clearer impression. This was formerly done by hand, and of course very was desirable that the edges should be trimmed, so powered they would wear well. If cut with a straight knife or disorganized. They changed their purpose, extending they would be beveled one way. As they are now they would be beveled one way. As they are now they would be beveled one way, they are now they would be beveled one way. They should be be the control of most elaborate-of them. We will, renew our ness for printing; it is next in order to bring the take with a machine more than seventy-five impresthree together and produce from their combination the per day, and a hundred others of a similar they would be beveled one way. As they are now three together and produce from their combination the produce from their combination there are no structured in the hands the produce from their combination the produce from their combination there are no structured in the hands the produce from their combination the produce from the produce fro one we shall have ample time to notice other rooms, Chase went on and instructed Mr. Clark to continne the experiments and perfect the system. The the two edges. As fast as they are trimmed, the

> The notes of the value of one dollar and upward are printed four on a sheet. One machine trims the reckless margins, and another separates them. The sepa-

hand, by spokes placed in the end of the roller, intended that the cutting should be a criterion by nissioner and Deputy Commissioner of Internal the former attending the plate, the latter the paper. every one must be of the same width and length. Revenue, connected with which on either side of The plate is kept warm while working by a gas We place the end of a bill on the center of another,

> The currency-cutting machine is more complinbering the coupons and the denomination with cated, as it cuts both ways, and files them in bundles

and the adjoining room, which are also used for the count taken when work stops at night does not wet or roller press printing, the whole employing agree with that made in the morning when the about 200 hands. At the time of our visit the whole work is given out, the whole force engaged in the down stairs, from which the stock necessary for the use of the principal Paper Store-room of this large force was as work, and the scene predom in which the stock necessary for the use of the principal Paper Store-room of this large force was as work, and the scene predom in which the decrease in region in their respective places until the missing sponsibility on Mrs. He said he would do so instantly sponsibility on Mrs. H

room, from which they can be removed only when of the passage. Here a similar scene presents itself. Sewing-machine. The discs are turned by a ratchet, as had the same effect in France, while in Germany actually wanted for printing, and sever except by to that just witnessed in the Paper-room. The state of things and will number from 1 to 999,999. For consecutable with the same effect in France, while in Germany and will number from 1 to 999,999. For consecutable with the same effect in France, while in Germany and will number from 1 to 999,999. For consecutable with the same effect in France, while in Germany the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the sheet, as they leave the drying-room are brought the superintendent of plate-printing. The dimension of this want or the same effect in France, while in Germany and will number from 1 to 999,999. For consecutable with the same effect in France, while in Germany and will number from 1 to 999,999. For consecutable with the same effect in France, while in Germany and will number from 1 to 999,999. For consecutable with the same effect in France, while in Germany and will number from 1 to 999,999. For consecutable with the same effect in France, while in Germany the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engraver or transferer upon a written order from the engrave

"Notwithstanding slight

## OHIO.

ompelled to speak sittings, make no random assertions: replaced by Gen. Buell troops to enable him to

herefore foit the propriety of non-intervention with the greent politics of the day. He had watched with in-crest the progress of events, particularly the growing disregard of law. Crime was marked with more atrored figure known as the "seal" is imprinted upon met twice

this band of desperadoes, directed, if not headed, by Flord, the then Secretary of War. The public others

a yellow mordant, and as they fly from the pressure are bronzed as they appear when issued.

Yellow is used because it cannot be photographed without showing too plainly to be mistaken, as was Separating rooms are Counting rooms, where each day's work of each employee in the several rooms is day's work of each employee in the several rooms is the city—that he had applied froquently are to the Secretary of War, but to no purpose.

men, whom a combination of traitors selected a placed around him, and the country suffered as mi by his imbecility as it would have suffered by treachery, except in the single fact that the Capital

To Brig. Gen. W. T.

Mr. Ewing commenced by referring to the fact that enough to warrant him in making an aggr

still held his troops on the banks of the Po the meantime the Rebel General, quite at removed his army, his cannon, his munition

from my letter-book (letter-press copy):

## CITY ITEMS.

SLOW AND STEADY .- The famous race between "slow and steady," ridden by old Abe. and the tourn "breg and bluster," ridden by Little Mac, is ada

declined to establish down town depots for the sale of car tickets a private individual has established a depor in The Sun office, corner of Nassau and Fulton-sta.